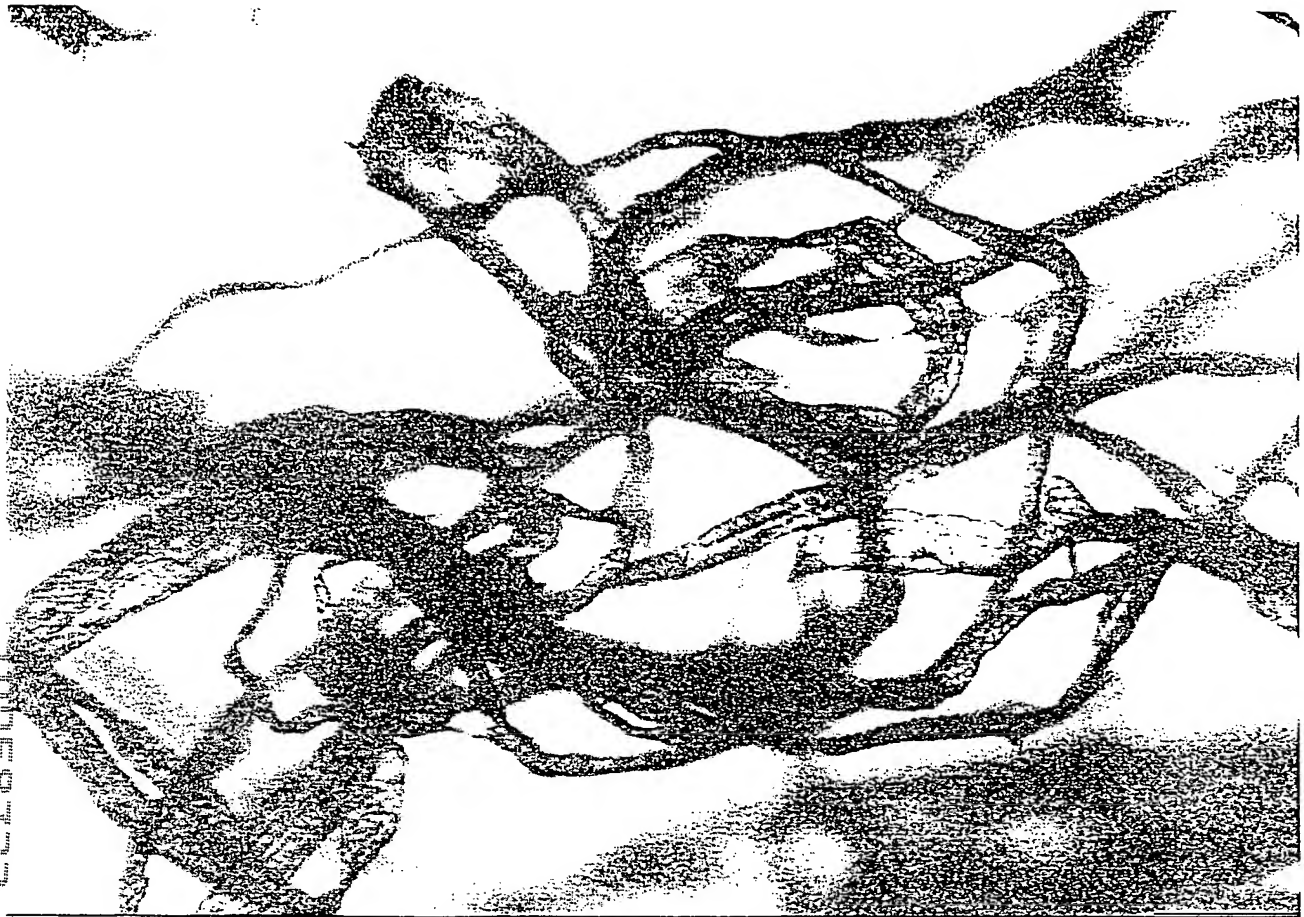




FIGURE 1: Photo micrograph of unmodified fibers

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FIGURE 3: Photo micrograph of aldehyde and carboxyl group modified fiber